

Title (en)

METHOD TO CALIBRATE THE AMPLITUDE OF THE RADIOFREQUENCY EXCITATION OF AN NMR IMAGING APPARATUS

Publication

EP 0245154 B1 19900926 (FR)

Application

EP 87400958 A 19870424

Priority

FR 8606547 A 19860506

Abstract (en)

[origin: US4739267A] Calibration of radiofrequency excitation involves application of two successive pulses of identical waveform and amplitude. The excitations are applied in series of excitations of variable amplitude from one excitation to the next in order to determine the calibrated value of the excitation pulses to be employed by transition of the amplitude of the received signal through a minimum value. It is demonstrated that this procedure prevents the calibration from being impaired by inhomogeneities of the orienting field of the apparatus. Spatial and spectral inhomogeneities of the excitation are also eliminated by applying throughout the calibration a selection gradient to the body under examination. Defects are eliminated by frequency filtering of the detected signal.

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IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

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Cited by

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EP 0245154 A1 19871111; **EP 0245154 B1 19900926**; DE 3765166 D1 19901031; FR 2598509 A1 19871113; FR 2598509 B1 19890331; US 4739267 A 19880419; WO 8809929 A1 19881215

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EP 87400958 A 19870424; DE 3765166 T 19870424; FR 8606547 A 19860506; FR 8700196 W 19870602; US 4554387 A 19870504